Quality Control

Work Order ID 684 Wednesday, April 13, 2011 4:										Page 1
tem ID: D3454-3 Revision ID:			Accept				Se	tup Start		
Start Date: 4/13/2011 Required Date: 4/20/2011 Reference:	Start Qty: 20.00 Req'd Qty: 20.00		- .	Cust Item I Customer:	D:			Stop		
Approvals: Process Pla	n:	Date:///04-/3	Tooling: SPC (Y/N):		nte:		Ru	in Start Stop		
Sequence ID/ Work Center ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #		ccept ty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr Rev	ision Nbr									
D3454 Rev	В									
100 	Hardinge CNC LATHE S Memo 1-TURN AS REV:	SMALL SPER FOLIO FA571 & DV DDWG REV:	□2-DEBURR AS REC	ouired 16/13		<u></u>	U	b		
110 QC Quality Control	QC2- Inspect parts off m	nachine FAI/FAIB	0.00			2	0	<u></u>		
120 	QC8- Inspect parts - seco	ond check	0.00 2	9 11·C.	(4	2	0	R		

Dart Aerospace Ltd	D	art	Aer	OS	pace	Ltd
--------------------	---	-----	-----	----	------	-----

W//O:	1		14/6	DE OPPED CITA	NOTO			<u>-</u>		
W/O:				ORK ORDER CHA	INGES	<u> </u>			Approval	Approval
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Chief Eng / Prod Mgr	QC Inspector
					5 m					
				2						
							•			
	:				:					
Part No	:	PAR #:	Fault Cate	gory:	N(CR: Yes	No DQ	\ :	_ Date: _	
	R	esolution:	Disposition	າ:	Q	A: N/C Clo	sed:		Date:	
NCR:		,	WORK ORD	ER NON-CONFO	RMANC	E (NCR)			
D.4.T.F.	0.750	Description of NC		Corrective Action	Section B		Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descript Chief Eng	on	Sign & Date	Secti		Chief Eng	QC Inspector
										<u> </u>
ŀ										
ı			1						1	1

Work Order ID 68467

Wednesday, April 13, 2011 4:15:24 PM



Page 2

Item ID:

D3454-3

Accept



Setup Start

Stop



Revision ID:

Item Name:

Bushing

Start Date: 4/13/2011 **Required Date:** 4/20/2011

Start Qty: 20.00

Req'd Qty: 20.00

Cust Item ID:

Customer:

Reference:

Approvals:

Date:

Date:

Tooling: SPC (Y/N): Date:

Date:

Stop



Sequence ID/

Work Center ID

130

Small Fab

Small Fab

Operation Description

Small Fab

Set Up/ **Run Hours**

0.00

Tool ID

Tool # Plan

Accept Code Qty

Reject Qty

Reject Insp. Number Stamp

Run

Memo

Deburr if necessary.

1116/13

140

Quality Control

QC5- Inspect part completeness to step on W/O

Identify as per dwg & Stock Location: 059

Memo

150

Packaging

Memo

0.00

0.00

Packaging

Dart Aerospace Ltd

W/O:			W	ORK ORDER CHA	NGES					
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
									1 Tod Ingi	
										
		e e								
								:		
Part No		PAR #:	Fault Cat	tegory:	NC	R: Yes	No DQ	A:	Date:	
	R	esolution:	Dispositi	on:	QA	: N/C CI	osed:		Date: _	
NCR:		V	VORK ORI	DER NON-CONFO	RMANCI	E (NCF	3)			
DATE	STEP	Description of NC		Corrective Action	Section B		Verifi	cation	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Descript Chief Eng	ion	Sign 8 Date	Sect	tion C	Chief Eng	QC Inspector
:										
	4									:

Work Order ID 68467

Wednesday, April 13, 2011 4:15:24 PM



Page 3

Item ID:

D3454-3

Accept

Setup Start

Stop



Revision ID:

Start Date:

Item Name:

Required Date: 4/20/2011

Bushing

Start Qty: 20.00 4/13/2011

QC:____

Operation

Description

Req'd Qty: 20.00



Date:

Cust Item ID:

Customer:

Reference:

	nn	MO	امي	
А	nn	ro	vai	S:

Process Plan:

Date: _____

QC21- Final Inspection - Work Order Release

Tooling:

SPC (Y/N):

Set Up/

Run Hours

Date:

Date:

Start Run



Sequence ID/

Work Center ID

160

QC

Memo

0.00

0.00

Tool ID

Tool # Plan Code

Reject Accept Qty Qty

Reject Number

Insp. Stamp

Quality Control

Dart Aerospace Ltd

W/O:			W	ORK ORDER CHA	NGES					
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
									Flod Wgi	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· <u>.</u> .								
Part No		PAR #:	Fault Cat	tegory:	N	ICR: Yes	No DQ	A:	_ Date: _	
	R	esolution:	Dispositi	ion:	c	A: N/C CI	osed:		Date: _	
NCR:			WORK ORI	DER NON-CONFO	RMAN	CE (NCF	3)			
5.475	OTED	Description of NC		Corrective Action	Section E		Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descrip Chief Eng	tion	Sign 8 Date	k Sect	tion C	Chief Eng	QC Inspector
•									:	
										1
		·								
										
									1	

Picklist Print

Wednesday, April 13, 2011 4:15:28 PM

Work Order ID: 68467

Parent Item:

D3454-3

Parent Item Name: Bushing



Start Date: 4/13/2011

Required Date: 4/20/2011

Page 1

Start Qty: 20.00

Required Qty: 20.00

Comments:

IPP rev. A 05.11.17

new issue

EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M303R0.750		Purchased	No			100	f	114.0500	0.06	1.263158	₹	,	

303 Round Bar 0.750

<u>Location</u>	Loc Oty	Loc Code
MAT028	114.05	
117142	54.05	
117328	60	

117798

Dart Aeı	ospace	Ltd								t •
W/O:			· WO	RK ORDER CHA	NGES					
DATE	STEP	PRO	OCEDURE CHAI	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							ļ			

							ļ			
·										
Part No	•	PAR #:	Fault Cated	jory:	NC	R: Yes N	lo DQA:		Date: _	
	Re	esolution:	Disposition	1:	Q <i>A</i>	A: N/C Clo	sed:		Date: _	
NCR:			WORK ORDE	R NON-CONFO	RMANC	E (NCR)	1			
DATE	STEP	Description of NC Section A	Initial	Corrective Action Action Descrip	Section B	Sign &	Verifica Section		Approval Chief Eng	Approval QC Inspector
			Chief Eng	Chief Eng		Date				<u> </u>
							`			ļ

Chief Eng Chief Eng Date

DART AEROSPACE LTD	Work Order:	48467
Description: Bushing	Part Number:	D3454-3
Inspection Dwg: D3454 Rev: B		Page 1 of 1

mspection Dwg		ST ARTICLE II	NCDECTI		CKI IST	<u> </u>	
	_	X First Arti	г	\neg	otype		
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Coi	mments
Ø0.316	+0.005/-0.000	0.319		·	2/2		
Ø0.435	+0.000/-0.005	0,4325					
0.400	+0.005/-0.000	.402					
0.060	+0.010/-0.000	1065					
Ø0.75	+0.008/-0.001	0,150					
·				-			
					1		
			-	,			
			:				
	-1	1					A1/A
Measured by:	11	Audited by:			Prototype A		N/A
Date:	016/13	Date:	11. 6	14		Date:	N/A
Rev Date	Change			·	F	Revised by	Approved

Rev	Date	Change	Revised by	Approved
A	06.09.01	New Issue	KJ/JLM	
В	10.03.31	Dimension 0.060 was 0.60	KJ 9K	4/
			17	

Dart Aero	space	Ltd
-----------	-------	-----

W/O:			,	V	ORK ORDER CHANGE	ES					
DATE	STEP	PROCEDUR			CHANGE By			Date Qty	ty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
											•
		*									
Part No	e •	PAR #:	Fau	ilt Ca	tegory:	NCR: \	es N	o DQA: _		_ Date: _	
Resolution: Dis			posit	on:	_ QA: N/	C Clos	sed:		Date: _		
NCR:		V	VORK	OR	DER NON-CONFORMA	NCE (I	ICR)				
DATE	STEP				Corrective Action Section			Verification		Approval	Approval
DAIL	0.2.		Ini Chie		Action Description Chief Eng		ign & Date	Section (0	Chief Eng	QC Inspector
											0.00
						!					

NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE



DESIGN R	•	DRAWN BY RF	DART AERO: HAWKESBURY, OI	
CHECK	ED J	APPROVED 11	DRAWING NO.	REV. B
	M	- पा	D3454	SHEET 1 OF 1
DATE			TITLE	SCALE
	05.1	12.05	BUSHING	. 2:1
Α	0	5.09.02	NEW ISSUE	`
В	0	5.12.05	REVISE -5/-7	

RELEASED 05.12.09

C^{+0.005} SHOP COPY E RETURN TO ØA^{+0.005} R0.020 **ENGINEERING** UNCONTROLLED POPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER NO. 48461 $\phi B_{-0.005}^{+0.000}$ M11-04-13 0.015 x 45° CHAMFER -D^{+0.010} -0.000

1) SPECIFICATION: D3454-X BUSHING

D3454-X

DASH No.

WHERE 'X' IS THE SIZE PER THE FOLLOWING TABLE:

DASH No.	A (in)	B (in)	C (in)	D (in)	E (in)
-1	0.316	0.435	0.420	0.060	1.00
-3	0.316	0.435	0.400	0.060	0.75.
-5	0.250	0.372	0.400	0.060	0.75
-7	0.250	0.372	0.343	0.060	0.75

NOTES:

- 1) MATERIAL: AISI 303 SS ROUND BAR (REF. DART SPEC. M303R)
 2) FINISH: NONE
 3) IDENTIFY WITH P/N USING FINE POINT PERMANENT MARKER
 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
 5) ALL DIMENSIONS ARE IN INCHES
 6) BREAK ALL UNMARKED SHARP EDGES 0.005 TO 0.010

COPYRIGHT © 2005 BY DART AEROSPACE LTD.

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

Dart Aerospace Ltd

W/O:			WORK ORDER CHANGES						
DATE	STEP	PROCEDURE	CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No):	PAR #: Faul	Category:	NCR: Yes	No DQ	A :	Date: _		
	Resolution	ո։ Disp	osition:	QA: N/C C	losed:		Date: _		

NCR: WORK				OR	DER NON-CONFORMANCE (NC	₹)	,	
DATE					Corrective Action Section B	Varification	Annual	Ammuoval
	STEP	Description of NC Section A	Init Chief E		Action Description Sign Chief Eng Date		Approval Chief Eng	Approval QC inspector
		1						
				_				